ORDER NO. SD83022395C8

Service Manual

Honeycomb Disk Speaker System

SB-X800 (K)

[E],[EG],[EK],[EF],
[EB],[EH],[Ei],[XA]

* The black type model is indicated by (K) in the Service Manual.

Areas

* [E] is available in Scandinavia and Switzerland.
* [EG] is available in F.R. Germany.
* [EK] is available in United Kingdom.
* [EF] is available in France.
* [EB] is available in Belgium.
* [EH] is available in Holland.
* [Ei] is available in Italy.
* [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.

Specifications

(Specifications are subject to change without notice for further improvement.)

Type:	3way 3speaker bass-reflex system
Speakers:	Woofer: 33 cm Honeycomb Disc Midrange: 8 cm, Honeycomb Disc Tweeter: 2.8 cm, Honeycomb Disc
Impedance:	6 ohms
Input Power:	180 W, Music 90 W, DIN
Output Sound Pressure Level:	93 dB/W (1.0 m)
Crossover Frequency:	1,000 Hz, 4,000 Hz
Frequency Range:	35 Hz ~ 35 kHz (−16 dB) 40 Hz ~ 33 kHz (−10 dB)
Dimensions:	38.0(W) x 67.0(H) x 32.7(D) cm
Weight:	21.5 kg

CARACTERISTIQUES

(Sujet à changement sans préaris.)

Type:	3 voies, 3 haut-parleurs, bass-reflex
Haut-parleurs:	graves: 33 cm, disque alvéolé moyennes: 8 cm, disque alvéolé aigus: 2,8 cm, disque alvéolé
Impédance:	6 ohms
Puissance d'entrée:	180 watts, musique 90 watts, DIN
Niveau de pression sonore de sortie:	93 dB/W (1,0 m)
Fréquence de commutation:	1.000 Hz, 4.000 Hz
Gamme de fréquences:	35 Hz ~ 35 kHz (−16 dB) 40 Hz ~ 33 kHz (−10 dB)
Dimensions:	38,0(l) x 67,0(h) x 32,7(p) cm
Poids:	21,5 kg

TECHNISCHE DATEN

(Spezifikationen können infolge von Verbesserungen ohne Ankindigung geändert werden.)

Typ:	3-Weg-System mit 3 Baßreflex-Lautsprechern
Lautsprecher:	Tieftonlautsprecher: 33 cm, Wabenscheibe Mitteltonlautsprecher: 8 cm, Wabenscheibe Hochtonlautsprecher: 2,8 cm, Wabenscheibe
Impedanz:	6 Ohm
Belastbarkeit:	180 Watt Musik 90 Watt DIN
Abgegebener Schalldruckpegel:	93 dB/W (in 1,0 m Abstand)
Überschneidung-frequenz:	1.000 Hz, 4.000 Hz
Frequenzbereich:	35 Hz ~ 35 kHz (−16 dB) 40 Hz ~ 33 kHz (−10 dB)
Abmessungen:	38,0(B) x 67,0(H) x 32,7(T) cm
Gewicht:	21,5 kg

ESPECIFICACIONES

(Estas especificaciones están sujetas a cualquier cambio sin previo eviso.)

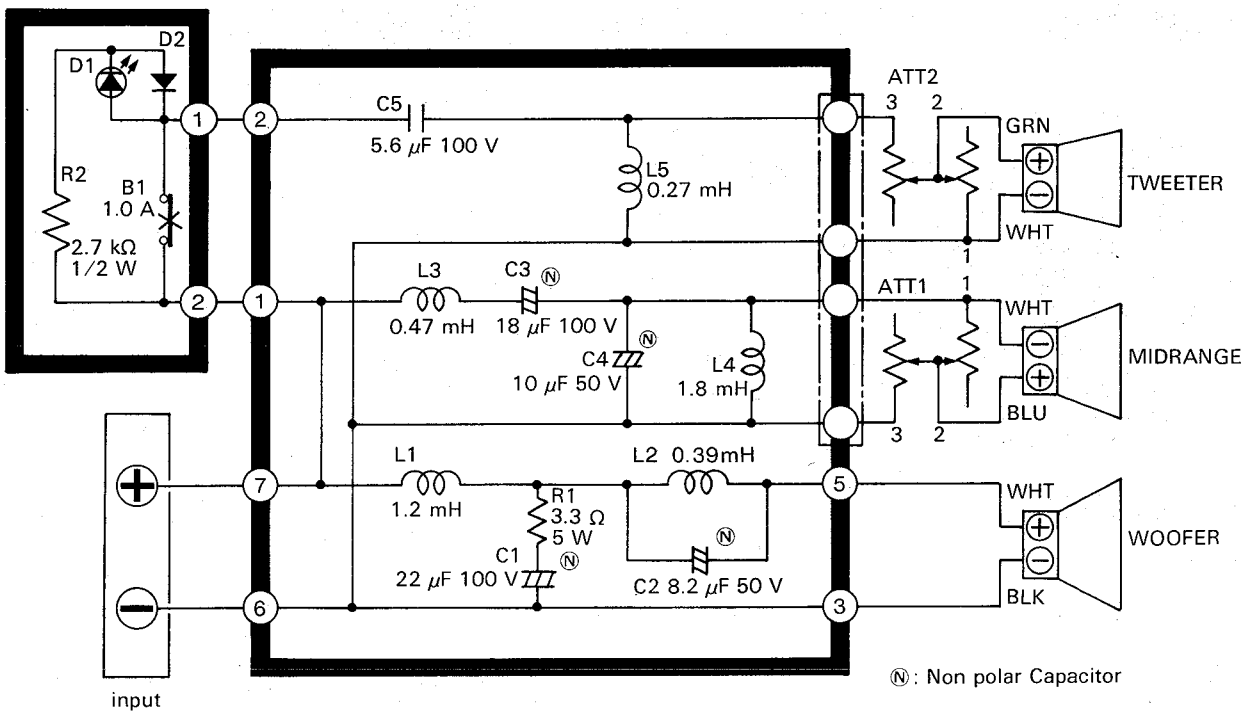
Tipo:	Sistema de reflexión de bajos con 3 altoparlantes
Altoparlantes:	"Woofer": disco en forma de panal de abeja, de 33 cm "Gama media": disco en forma de panal de abeja, de 8 cm "Tweeter": disco en forma de panal de abeja, de 2,8 cm
Impedancia:	6 ohmios
Potencia de entrada:	180 W, muásica 90 W, DIN
Nivel de presión acuástica de stalida:	93 dB/W (1,0 m)
Frecuencia de cruce:	1.000 Hz, 4.000 Hz
Alcance de frecuencia:	35 Hz ~ 35 kHz (−16 dB) 40 Hz ~ 33 kHz (−10 dB)
Dimensiones:	38,0(ancho) x 67,0(alto) x 32,7(prof.) cm
Peso:	21,5 kg

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)



■ SERVICING METHOD

● How to remove the attenuator

1. Prepare a strong thin thread of about 30 cm.
2. Push the thread in between the panel and the knob by use of an eyeleteer or pincette. (Fig. 1-A)
3. Let the thread be caught by the knob, then pull the thread to remove the knob. (Fig. 1-B)
4. After removing the washer and nut, put your hand into the opening from which the midrange speaker was removed, and then remove the attenuator volume backward.

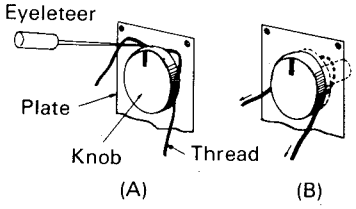


Fig. 1

● How to remove the breaker

1. Remove the attenuator volume. (Refer to "How to remove the attanuator")
2. Remove the setscrews (Fig. 2: ❶-❹) which secure the attenuator panel. (The upper side of the panel is affixed with double sided tape, so remove the panel gently after first removing the screws.
3. Remove the breaker P.C.B. from the attenuator panel, and unsolder the terminals to remove the breaker.

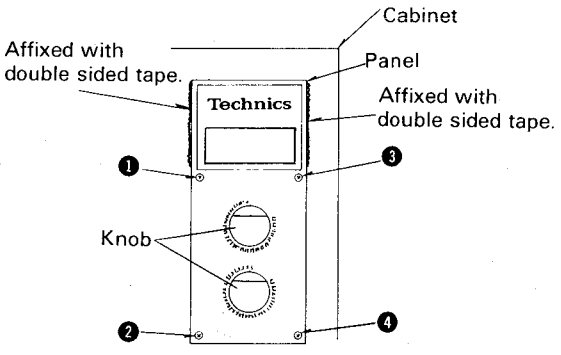


Fig. 2

● How to remove the terminal board

1. Remove the 4 setscrews (Fig. 3.❺-❽) which secure the terminal board.
2. Hold the knob on the terminal board with both hands, and pull the terminal board in the direction indicated by the arrow. (If the terminal board cannot be easily removed in this manner, insert the blade of a cutter knife or similar sharp tool between the terminal board and the cabinet and slightly twist it to loosen the board without scratching the unit.

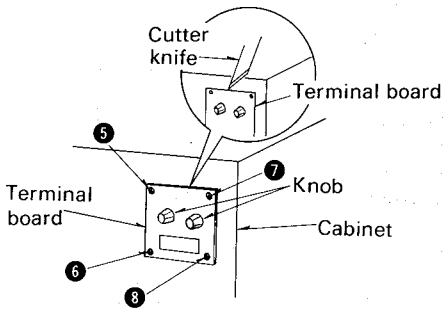
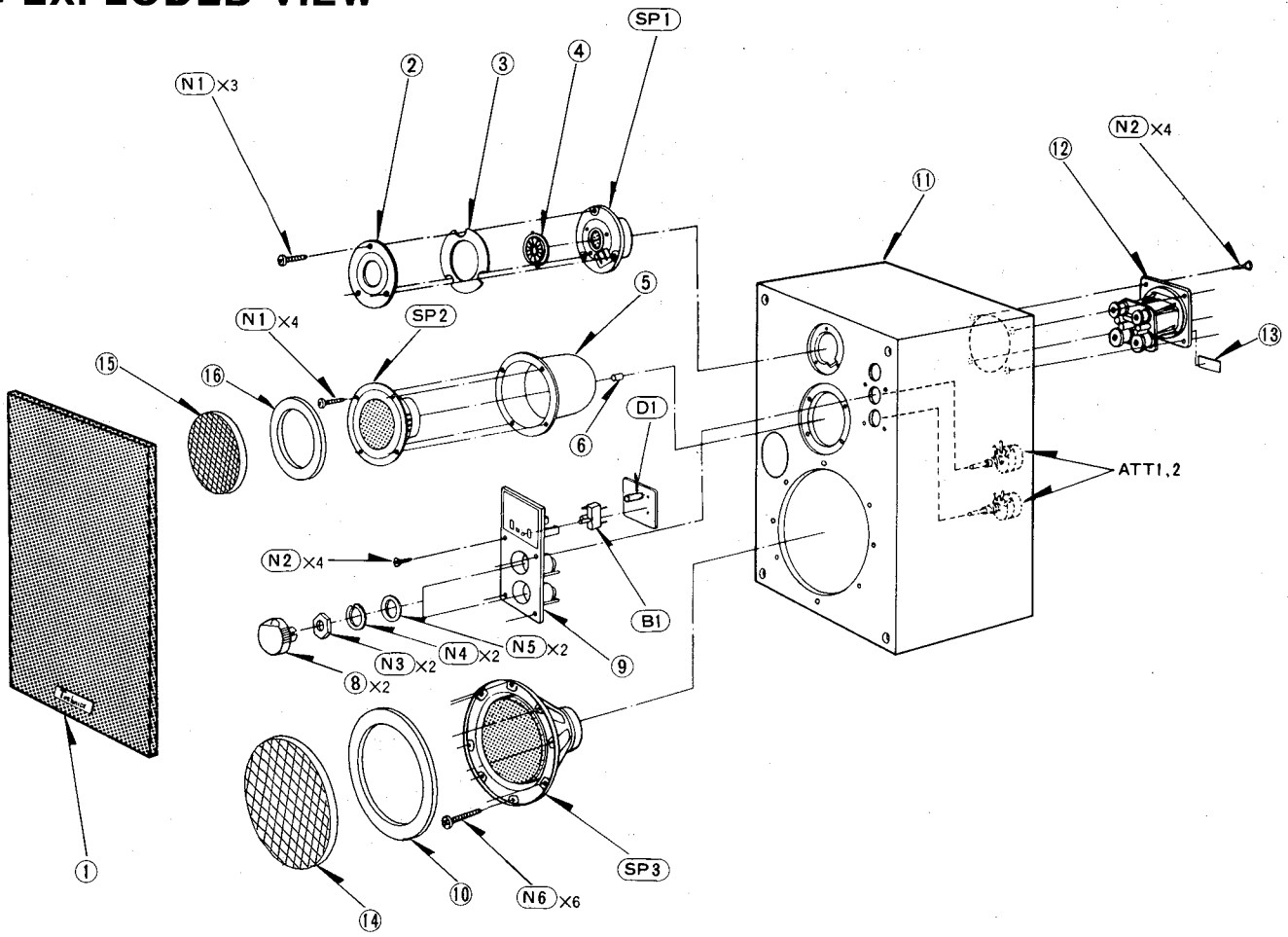


Fig. 3.

■ EXPLODED VIEW



■ REPLACEMENT PARTS LIST

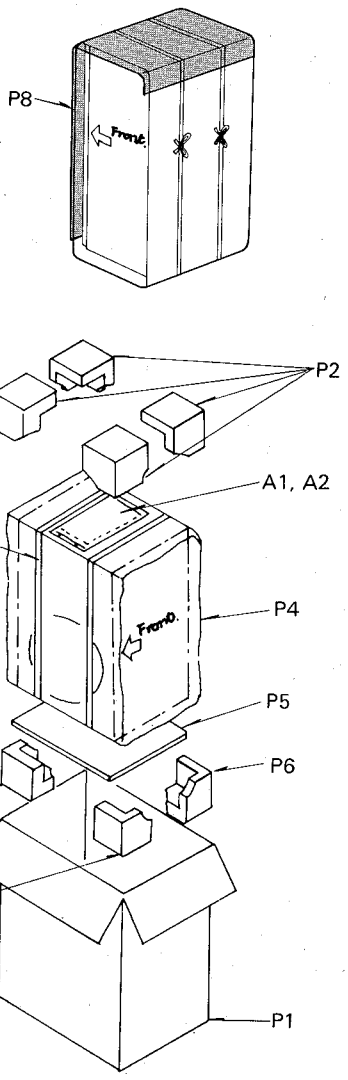
Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. The parenthesized numbers in columns of description stand for the quantity per set.
3. The "S" mark is service standard parts and may differ from production parts.

Ref. No.		Part No.	Part Name & Description	
SPEAKERS				
SP1		EAS3PH14S	Tweeter	(1)
SP2		EAS10PM233S	Midrange	(1)
SP3		EAS33PL05S	Woofer	(1)
COILS				
L1		SLCSB122JU	1.2 mH	(1)
L2		SLCSA391J	0.39 mH	(1)
L3		SLCSA471J	0.47 mH	(1)
L4		SLCSA182J	1.8 mH	(1)
L5		SLCSA271K	0.27 mH	(1)
CAPACITORS				
C1		ECEA100Y22K	22 μF, 100 V	(1)
C2		ECEA50Y8R2K	8.2 μF, 50 V	(1)
C3		ECEA100Y18K	18 μF, 100 V	(1)
C4		ECEA50Y10K	10 μF, 50 V	(1)
C5		ECQE1565KN	5.6 μF, 100 V	(1)
RESISTORS				
R1		ERF5ZXK3R3	3.3Ω, 5 W	(1)
R2		ERD50FJ272	2.7kΩ, 1/2 W	(1)
DIODES				
D1		LN21CPHL	LED	(1)
D2		MA162A	Diode	(1)
BREAKER				
B1		SSBS10AB02-1	Thermal Relay 1.0 A	(1)
ATTENUATOR				
ATT1, 2		SRES2	Attenuator	(2)

Ref. No.		Part No.	Part Name & Description	
CABINET PARTS				
1		SYBS123	Grill	(1)
2		SYES35	Panel, Tweeter	(1)
3		SHRS9075	Spacer, Tweeter	(1)
4		SGES47-1	Equalizer, Tweeter	(1)
5		SUVS8	Cover, Midrange	(1)
6		SHRS9071	Bushing, Midrange	(1)
8		SBNS5-1	Knob, Attenuator	(2)
9		SYES37-2	Panel, Attenuator	(1)
10		SGES123	Spacer, Woofer	(1)
11		SKABX800KE	Cabinet	(1)
12		SJFS4210	Terminal Board Ass y	(1)
13		SGTS195	Plate	(1)
14		SGMS38	Net, Woofer	(1)
15		SGMS37	Net, Midrange	(1)
16		SGES122	Rubber, Midrange	(1)
SCREWS & WASHERS & NUT				
N1		SNES9010FJ	Screw, Tweeter, Midrange	(7)
N2		XMS31+D16FZ	Screw, Attenuator, Terminal	(8)
N3		XNGS9C	Nut, Attenuator	(2)
N4	S	XWV9	Washer, Attenuator	(2)
N5	S	XWG9E15	Washer, Attenuator	(2)
N6		SNES9003FZ	Screw, Woofer	(6)

■ PACKINGS

Ref. No.		Part No.	Part Name & Description	
ACCESSORIES				
A1		SQFS254	Instruction Book	(1)
A2		SWXS189-2	Speaker Cord	(1)
PACKING PARTS				
P1 [EF]		SPGS197-1	Carton Box	(1)
P1 [XA]		SPGS197-2	Carton Box	(1)
P1 [other Areas]		SPGS197	Carton Box	(1)
P2		SPSS9011	Pad, Top	(4)
P3		SPE27	Belt	(1)
P4		SPJS2-1	Polyethylene Bag	(1)
P5		SPSS6230	Pad, Bottom	(1)
P6		SPSS1004	Pad, Corner	(2)
P7		SPSS1004-1	Pad, Corner	(2)
P8		SPHS6050	Sheet	(1)



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